

AC Voltage Drop & Power losses

From Inverters to PV MDB's to Pocc												
Inv #	Power of Inverter (KW)	Cables Cross-Section (mm ²)	AC POWER (Kwac)	Grid Voltage (V)	IL (A)	mV	Length m	Circuit Breaker For Inverter (A)	V Drop	V drop %	Power Losses (P _{Loss}) (W)	Power Losses (P _{loss} %)
INV N.1	40 KW	4 X 10 mm ²	40 KW	400 V	58 A	3.53	10	100A~4P	2.05	0.51%	118.75	0.30%
Main	40 KW	4 X 25 mm ²	40 KW	400 V	58 A	1.46	50	100A~4P	4.22	1.06%	244.90	0.61%
THE WHOLE SYSTEM											1.57%	0.91%